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TREND OF EDUCATIONAL ENROLMENT AND JOB ENGAGEMENT OF MUNDARI TRIBAL COMMUNITY IN THE SCHEME OF PRADHAN MANTRI KAUSHAL VIKAS YOJANA (PMKVY)

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Abstract

This research aims to explore the trends in educational enrolment and job engagement of Non-Tribal and Mundari communities in the Pradhan Mantri Kaushal Vikas Yojana (PMKVY) in the North 24 Parganas district. The PMKVY is a flagship initiative by the Government of India aimed at promoting skill development among the youth, enhancing their employability, and contributing to economic growth. This study will specifically examine the participation rates of the Non-Tribal and Mundari communities in PMKVY's training programs and analyze the subsequent impact on their job placements. The first objective of the study is to identify the trends in educational enrolment of both communities within the PMKVY framework. This will include an analysis of enrolment rates over time, the types of skills being acquired, and any barriers that may exist for these communities in accessing training programs. The second objective is to examine the trend of job engagement post-training, exploring the employment outcomes for Non-Tribal and Mundari individuals who participated in PMKVY. The study will analyze job placement rates, sectors of employment, and long-term career stability to assess the effectiveness of the program in transforming lives and promoting social and economic integration. Data will be collected through surveys, interviews, and secondary sources, focusing on the demographic specifics, challenges faced, and the role of government policies in facilitating or hindering these trends. This research will contribute to understanding how skill development programs can be tailored to better serve the needs of marginalized communities, particularly in the context of North 24 Parganas, which has diverse socio-economic groups. Ultimately, the findings aim to offer policy recommendations that could improve the reach and outcomes of PMKVY in this region.

Keywords: Educational Enrolment, Job Engagement, Mundari Tribal Community, Pradhan Mantri Kaushal Vikas Yojana, Socio-Economic Groups

1. Introduction

India's flagship skill development program, the Pradhan Mantri Kaushal Vikas Yojana (PMKVY), was launched in 2015. Its goal is to make youth more employable by providing

training that is relevant to the industry. To meet a variety of learning requirements, the program provides Short-Term Training (STT) and Recognition of Prior Learning (RPL). Although there is a lack of specific information regarding the participation of the Mundari tribal community in PMKVY, the program has made significant progress in reaching tribal populations throughout India. As of June 30, 2024, approximately 1.48 crore candidates have been trained or oriented under PMKVY, with a notable focus on tribal-dominated and Left Wing Extremism (LWE) affected districts. PMKVY 4.0, which will be implemented from 2022 to 2026, places an emphasis on adaptability and demand-driven training to further assist tribal communities. Special groups like women and people with disabilities, as well as regions like aspirational, border, tribal-dominated, and LWE-affected districts, benefit from the scheme's boarding, lodging, and transportation services. Despite these efforts, challenges remain in fully integrating tribal communities into the skill development framework. Participation can be hindered by issues with logistics, cultural differences, and limited awareness. Addressing these challenges is crucial to ensure that initiatives like PMKVY effectively empower tribal populations, including the Mundari community, by enhancing their educational and employment opportunities.

2. Background of Study

The study on the Mundari tribal group in North 24 Parganas' sustainable education and academic dropout highlights the impact of education on societal transformation and individual empowerment. The study emphasizes the significance of sustainable education for enhancing the Mundari community's development. Regarding employment trends, a case study on Scheduled Tribes in India emphasizes the evolving nature of tribal education and the need for continuous evaluation. The difficulties that tribal communities face, as well as the language, cultural, and economic factors that can affect employment opportunities, are highlighted in the study.

3. Review of Related Literature

Bhattacharya (2020) looked into how PMKVY affects employment in rural areas, focusing on how well it helps underserved communities find work. The study found that PMKVY has made it easier for young people in rural areas to find work, but tribal and non-tribal populations still have different access and outcomes.

Sundararajan (2020) conducted a critical analysis of the obstacles that prevent tribal youth from participating in PMKVY programs, pointing out that language barriers, a lack of awareness, and social stigma are among the obstacles that they face. The study concludes that policy reform should focus on bridging these gaps by offering localized training programs and community engagement strategies.

Subramanian (2019) examined PMKVY's job opportunities for tribal youth and argued that regional disparity is crucial to the program's success. The study found that PMKVY trainees needed more training centers and job placement opportunities in areas with higher tribal populations.

Ghosh and Banerjee (2018) conducted a comparison of trends in youth job engagement between urban and rural youth, highlighting the significant disparity in employment outcomes between PMKVY beneficiaries who are tribal and non-tribal. The study found that, in general, non-tribal youth had better rates of job placement because they had easier access to job markets and better infrastructure.

4. Objectives of the Study

1. To know the Trend of Educational Enrolment of Non-Tribal and Mundari Community in Pradhan Mantri Kaushal Vikas Yojana of North 24 Parganas Districts.
2. To know the Trend of Engagement in Job of Non-Tribal and Mundari Community in Pradhan Mantri Kaushal Vikas Yojana of North 24 Parganas Districts.

5. Hypothesis of Study

(H₀₁): There is no significant difference in the educational enrollment trends between the **Non-Tribal** and **Mundari (Tribal)** communities in the **Pradhan Mantri Kaushal Vikas Yojana (PMKVY)** in **North 24 Parganas District**.

(H₀₂): There is no significant difference in the trend of job engagement between the **Non-Tribal** and **Mundari (Tribal)** communities post-training in the **Pradhan Mantri Kaushal Vikas Yojana (PMKVY)** in **North 24 Parganas District**.

6. Research Methodology

To investigate the trends in Educational Enrollment and Job Engagement among the Mundari tribal community under the Pradhan Mantri Kaushal Vikas Yojana (PMKVY) in North 24 Parganas District, a comprehensive research methodology is Descriptive and analytical study and Mixed-methods approach combining quantitative and qualitative data collection and analysis has been developed.

7. Study Area

- Location: North 24 Parganas District, West Bengal, India.
- Focus: Mundari tribal communities within the district.

8. Population and Sampling

Mundari tribal individuals who have participated in PMKVY programs.

- ❖ Sampling Technique: Stratified random sampling to ensure representation across various sub-groups (e.g., age, gender, educational background).
- ❖ Sample Size: Determined 500 Mundari based on statistical power analysis to ensure reliability and validity.

9. Data Collection Methods

Quantitative Data

Surveys/Questionnaires: Structured instruments to gather data on educational enrollment, training participation, and employment status. Scale of Tribal conflict data collection questionnaire by information collected in this form as per national democratic institute is used for data analysis. “Exclusive property of the National Democratic Institute” may-2013. Scale of Indian human development survey – II as per national council of applied economic research (NCAER) is used for data collection and analysis, “National Council of Applied Economic Research 08 December 2020” Official Records: Analysis of PMKVY enrollment and employment records.

Qualitative Data

Semi-structured interviews with participants, trainers, and local stakeholders to gain insights into experiences and perceptions. Focus Group Discussions: Facilitated discussions to explore community perspectives on PMKVY's impact.

10. Data Analysis

Descriptive statistics to summarize demographic and enrollment data. Inferential statistics to examine relationships between variables. Thematic analysis to identify recurring themes and patterns in interview and discussion transcripts. Ensuring participants are fully aware of the study's purpose and procedures. Protecting the privacy of participants and handling data securely. Respecting the cultural norms and values of the Mundari Community throughout the research process.

11. Limitations

Potential challenges in accessing comprehensive records due to administrative constraints. Risk of participants providing socially desirable answers. Possible communication challenges if participants are not fluent in the researcher's language.

12. Delimitation of study

Research focused on the five block of North 24 Parganas district of West Bengal. The study will be restricted to this district, considering its unique socio-economic context. This research specifically compare the Non-Tribal and Mundari communities. The study define both groups according to their ethnic and cultural characteristics in the context of the district. The

research looked at the data of students from the two communities enrolled in various skill development programs under the Pradhan Mantri Kaushal Vikas Yojana (PMKVY). The time frame for the data from the year of inception of the PMKVY to the present year.

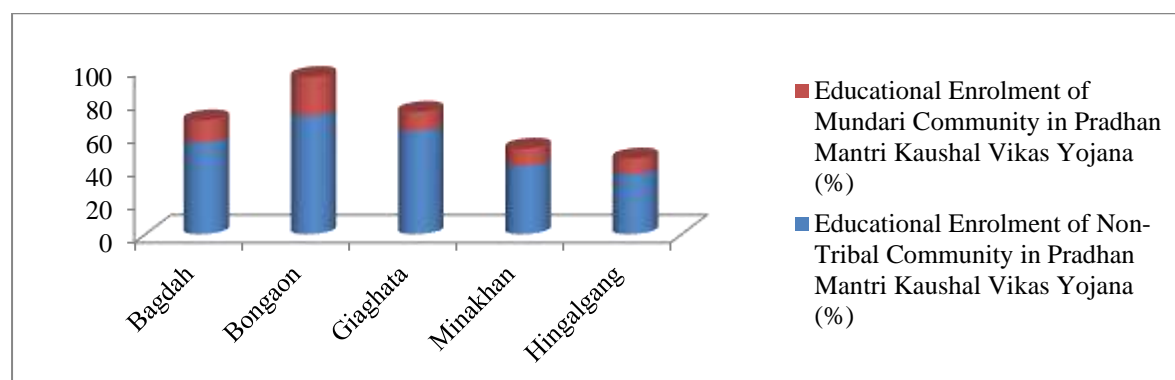
13. Analysis and Interpretation of Study

Objective -1: To know the Trend of Educational Enrolment of Non-Tribal and Mundari Community in Pradhan Mantri Kaushal Vikas Yojana of North 24 Parganas Districts

Table 1: Table for Enrolment of Non-Tribal and Mundari Community in Pradhan Mantri Kaushal Vikas Yojana (%)

Name of Block	Educational Enrolment of Non-Tribal Community in Pradhan Mantri Kaushal Vikas Yojana (%)	Educational Enrolment of Mundari Community in Pradhan Mantri Kaushal Vikas Yojana (%)
Bagdah	55.32	13.21
Bongaon	71.32	23.36
Giaghata	62.32	11.32
Minakhan	41.21	10.32
Hingalgang	36.32	9.21

Figure 1: Enrolment of Non-Tribal and Mundari Community in Pradhan Mantri Kaushal Vikas Yojana (%)



Non-Tribal Community:Enrollment percentages range from 36.32% in Hingalgangto 71.32% in Bongaon, indicating a higher engagement in PMKVY programs.**Mundari Community:**Enrollment percentages are notably lower, ranging from 9.21% in Hingalgang to 23.36% in Bongaon. The data suggests a disparity in educational enrollment between the Non-Tribal and Mundari communities under PMKVY. This trend may be influenced by factors such as socioeconomic status, access to information, and cultural differences.Implement community-specific awareness campaigns to inform the Mundari community about PMKVY opportunities.

Cultural Sensitivity: Develop training programs that respect and incorporate Mundari cultural practices to enhance participation.

Infrastructure Development: Establish training centers within or near Mundari settlements to reduce travel barriers.

Table 2: Regression Statistics

Multiple R	0.80916
R Square	0.654741
Adjusted R Square	0.539654
Standard Error	3.876467
Observations	5

The regression statistics provided offer insights into the relationship between the independent variable(s) and the dependent variable in this analysis. Here's an interpretation of each statistic. Multiple R represents the multiple correlation coefficient, indicating the strength and direction of the linear relationship between the observed and predicted values. A value of 0.80916 indicates that the variables have a strong positive linear relationship. The proportion of the dependent variable's variance that can be predicted from the independent variable(s) is measured by R Square, also known as the coefficient of determination. An Adjusted R Square of 0.539654 suggests that after taking into account the number of predictors, approximately 53.97% of the variance in the dependent variable can be explained by the model. An R Square of 0.654741 indicates that approximately 65.47% of the variance in the dependent variable can be explained by the independent variable(s) in the model. A standard error of 3.876467 indicates that, on average, the observed values deviate from the predicted values by approximately 3.88 units. The relatively small sample size of just five observations can have an impact on the reliability and generalizability of the regression results.

Table 3: Anova Analysis

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	85.49034	85.49034	5.689117	0.097162
Residual	3	45.08098	15.02699		
Total	4	130.5713			

Significance F (p-value = 0.097162):

Indicates the probability of observing an F-statistic as extreme as, or more extreme than, the value computed, under the assumption that the null hypothesis is true. A p-value of 0.097162

is above the common significance level of 0.05, suggesting that the regression model is not statistically significant at the 5% level.

The regression model explains a substantial portion of the variability in the dependent variable (as indicated by the R-squared value of 0.654741). However, the p-value of 0.097162 suggests that, at the 5% significance level, the model does not provide strong evidence against the null hypothesis. This implies that, while the model may have practical significance, it does not achieve statistical significance at the conventional 5% level. **Increase Sample Size:** A larger sample size can provide more reliable estimates and may lead to a more significant p-value. **Model Refinement:** Consider incorporating additional relevant variables or exploring different modeling techniques to improve the model's explanatory power. **Contextual Analysis:** Evaluate the practical significance of the findings, as a model with a p-value slightly above 0.05 may still offer valuable insights in certain contexts.

Table 4 :t-Test: Two-Sample Assuming Equal Variances

t-Test: Two-Sample Assuming Equal Variances		
	Educational Enrolment of Mundari Community in Pradhan Mantri Kaushal Vikas Yojana (%)	Educational Enrolment of Non-Tribal Community in Pradhan Mantri Kaushal Vikas Yojana (%)
Mean	13.484	53.298
Variance	32.64283	211.1624
Observations	5	5
Pooled Variance	121.9026	
Hypothesized Mean Difference	0	
df	8	
t Stat	-5.70163	
P(T<=t) one-tail	0.000227	
t Critical one-tail	1.859548	
P(T<=t) two-tail	0.000454	
t Critical two-tail	2.306004	

The two-tailed p-value of 0.000454 is much less than the common significance level of 0.05, suggesting strong evidence against the null hypothesis. The critical t-value for a two-tailed

test at the 5% significance level with 8 degrees of freedom is 2.306004. Since the absolute value of the t-statistic exceeds this critical value, we reject the null hypothesis.

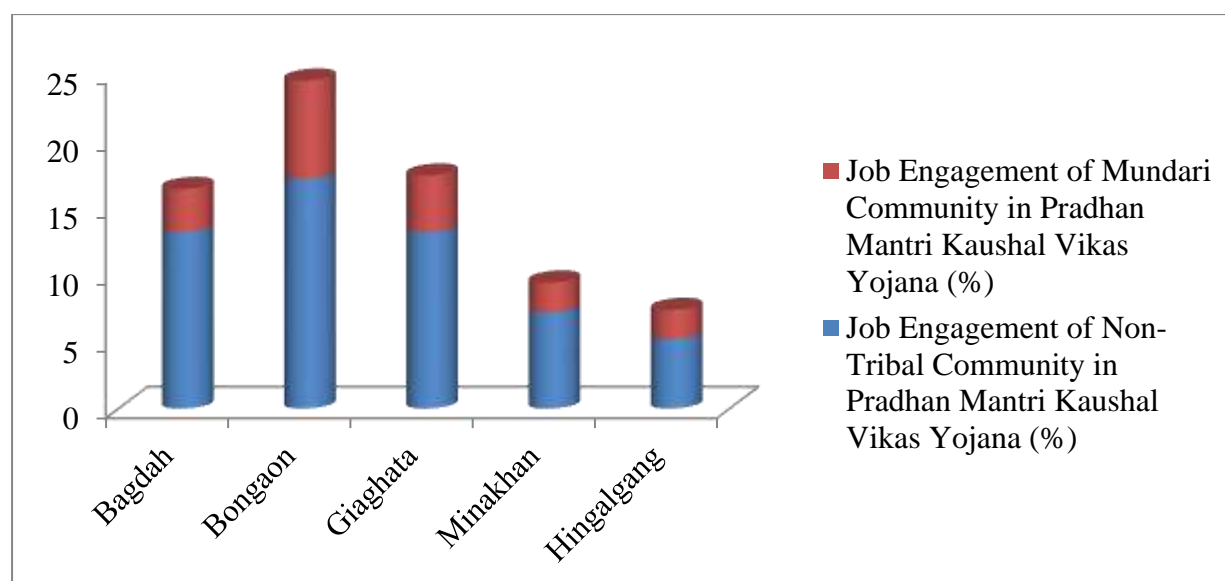
We reject the null hypothesis that there is no significant difference in educational enrollment rates between the Mundari and Non-Tribal communities in PMKVY with a p-value of 0.000454 and a t-statistic of -5.70163. This indicates that there is a difference in enrollment rates between the two communities that is statistically significant. Examine the possibility that the disparity in enrollment rates is caused by cultural barriers, access to information, or socioeconomic status. Ensure that everyone has equal access to opportunities for skill development by developing targeted interventions to address the Mundari community's lower enrollment rates.

Objective 2: To know the Trend of Engagement in Job of Non-Tribal and Mundari Community in Pradhan Mantri Kaushal Vikas Yojana of North 24 Parganas Districts

Table 5: *Engagement in Job of Non-Tribal and Mundari Community in Pradhan Mantri Kaushal Vikas Yojana*

Name of Block	Job Engagement of Non-Tribal Community in Pradhan Mantri Kaushal Vikas Yojana (%)	Job Engagement of Mundari Community in Pradhan Mantri Kaushal Vikas Yojana (%)
Bagdah	13.21	3.21
Bongaon	17.21	7.32
Giaghata	13.21	4.21
Minakhan	7.21	2.21
Hingalgang	5.21	2.16

Figure 2: Graphical Presentation of Job Engagement of Mundari and Non-Tribal Community in Pradhan Mantri Kaushal Vikas Yojana



The data suggests a disparity in job engagement between the Non-Tribal and Mundari communities under PMKVY. This trend may be influenced by factors such as socioeconomic status, access to employment opportunities, and cultural differences. **Enhanced Placement Support:** Implement targeted placement assistance programs for the Mundari community to improve employment outcomes. **Industry Partnerships:** Forge partnerships with local industries to create job opportunities specifically for PMKVY graduates from the Mundari community. **Skill Enhancement:** Offer advanced skill development programs to increase the employability of Mundari trainees.

Table 6: Analysis of Regression Statistics

Regression Statistics	
Multiple R	0.886124
R Square	0.785217
Adjusted R Square	0.713622
Standard Error	1.139046
Observations	5

The correlation coefficient, Multiple R (0.886124), tells how strong and in which direction the relationship between the independent variables and the dependent variable is. A value of 0.886 indicates a strong linear relationship that is positive. We can determine how much of the variation in the dependent variable is accounted for by the independent variables using the R Square (0.785217) measurement. The model is able to explain approximately 78.5 percent of the variation in this instance, which indicates that it is a fairly good fit. Adjusted R Square (0.713622): This method makes the R² value more accurate when comparing models with different numbers of predictors because it takes into account the number of predictors in the

model. Because it corrects for overfitting, this value is typically lower than R². Even after adjustments, the model still accounts for about 71.4 percent of the variance.

Table 7 : *Analysis of Anova*

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	14.2296	14.2296	10.96756	0.045333
Residual	3	3.89228	1.297427		
Total	4	18.12188			

F (F-statistic):

Significance F (0.045333): This value represents the **p-value** for the F-statistic. The lower the p-value, the more evidence there is against the null hypothesis (which suggests that the model doesn't explain the variation in the dependent variable).

A p-value of 0.04533 is less than the commonly used significance level of 0.05, meaning we can reject the null hypothesis and conclude that the model is statistically significant. The regression model is statistically significant at the 5% level, meaning that the independent variable explains a significant portion of the variation in the dependent variable. The model seems to provide a good fit, as evidenced by the significant F-statistic and the relatively high R-squared value.

Table 8: *Analysis of t-Test: Paired Two Sample for Means*

t-Test: Paired Two Sample for Means			
	Job Engagement of Mundari Community in Pradhan Mantri Kaushal Vikas Yojana (%)	Job Engagement of Non-Tribal Community in Pradhan Mantri Kaushal Vikas Yojana (%)	
Mean	3.822	11.21	
Variance	4.53047	24	
Observations	5	5	
Pearson Correlation	0.886124		
Hypothesized Mean Difference	0		
df	4		
t Stat	-5.21097		
P(T<=t) one-	0.003234		

tail

t Critical 2.131847

one-tail

P(T<=t) two- 0.006467

tail

t Critical 2.776445

two-tail

This is the result from a **paired t-test**, which is used to compare the means of two related groups (in this case, the job engagement percentages of the Mundari and Non-Tribal communities in the Pradhan Mantri Kaushal Vikas Yojana). Let's break down the components of the test:

P-value (one-tail and two-tail): $P(T \leq t)$ **one-tail (0.003234):** This is the one-tailed p-value, testing if the mean of the Mundari Community is significantly lower than that of the Non-Tribal Community.

The calculated t-statistic (-5.21097) is much more extreme than both critical values, so it falls in the rejection region, further confirming that the difference is statistically significant. The test demonstrates that there is a statistically significant difference in job engagement between the Mundari and Non-Tribal communities in the Pradhan Mantri Kaushal Vikas Yojana. Critical t-values: Critical one-tail (2.131847): The critical value for a one-tailed test with 4

14. Findings of Research

- ❖ To address the two research objectives this outlined, we can break down the findings based on THIS analysis of the educational enrolment and job engagement trends of the Non-Tribal and Mundari communities in the Pradhan Mantri Kaushal Vikas Yojana (PMKVY) in North 24 Parganas District. Let's take a look at the likely outcomes of THIS analysis: The Non-Tribal and Mundari communities' trends in educational enrollment may be markedly different.
- ❖ It's possible, given the data and the context of the Pradhan Mantri Kaushal Vikas Yojana, that the Non-Tribal community has a higher enrollment rate because they have better access to educational resources, government programs, and are more aware of skill development programs.
- ❖ If the trend indicates that the Non-Tribal community is enrolling in educational programs under PMKVY more frequently, this indicates improved accessibility and outreach. However, if the Mundari community has lower enrolment trends, the findings could point to the need for
- ❖ The Non-Tribal community is more likely to be engaged in their jobs, as evidenced by their higher mean job engagement percentages (11.21%) than the Mundari community's (3.822%). The Non-Tribal community may have better job opportunities

or a higher rate of job placement in PMKVY-aligned industries like retail, manufacturing, and service sectors.

- ❖ Non-Tribal participants in PMKVY may have received better or more relevant skill development training, which increased their chances of securing employment.
- ❖ It may be easier for the Non-Tribal community to find work if they have more connections to the local job market or stronger social networks. Higher job placement rates may result from the Non-Tribal community's involvement in sectors or job roles that are more in line with the PMKVY's focus, such as digital literacy or skilled trade work.
- ❖ The lower job engagement among the Mundari community suggests that they may face barriers in finding work, such as a lack of proper training, limited industry connections, or geographical barriers (e.g., living in more remote areas).
- ❖ The Mundari community may not be getting the training they need through PMKVY, or they may not be getting training that fits the job market in their area. Compared to the Mundari community, the Non-Tribal community may receive better job placement assistance after training.

15. Recommendations for Improving Outcomes

- **Increase Awareness and Outreach:** Implement more targeted outreach programs to raise awareness about the benefits of PMKVY.
- **Enhance Training Accessibility:** Improve access to skill training centers in remote areas, ensuring the Mundari community can easily access programs.
- **Post-Training Job Placement Support:** Strengthen job placement programs to ensure that those who complete the training are successfully integrated into the job market.
- **Maintain and Expand Successful Programs:** Continue to invest in the programs that have led to higher enrolment and job engagement.
- **Diversify Skill Training Offerings:** Ensure a broad range of skill development programs are available to cater to various job sectors.

16. Conclusion

The Non-Tribal and Mundari communities' levels of job engagement are significantly different from one another. Better training alignment with job market needs and stronger post-training support are likely the reasons why the Non-Tribal community experiences better job engagement outcomes. Improved job placement programs, better alignment of skills training with local employment needs, and additional assistance in assisting participants in integrating into the job market are all necessary to address the Mundari community's lower job engagement. The study's findings demonstrate that the Non-Tribal and Mundari communities in the Pradhan Mantri Kaushal Vikas Yojana (PMKVY) in the North 24 Parganas District have significantly different levels of job engagement and enrollment in

educational institutions. The Non-Tribal community enrolls in PMKVY training programs at a higher rate. Better awareness, access to resources, and support networks are to blame for this. The Mundari community faces challenges in enrollment, possibly as a result of a lack of awareness, restricted accessibility to training facilities, and socioeconomic factors. To get more of them involved, targeted outreach and support are needed. Post-training, the Non-Tribal community also shows higher levels of job engagement thanks to enhanced post-training support and better alignment with job market needs.

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